



CLAIMS WITH AMENDMENTS UNMARKED

WE CLAIM:

A¹ 1. (once amended) Inbred corn seed of the line designated G3001, representative seed of said line have been deposited in the ATCC under accession number X.

2. A corn plant produced by the seed of Claim 1.

3. (once amended) A tissue culture of regenerable cells from the plant of G3001 of Claim 2.

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SUB B1
4. (once amended) A tissue culture of regenerable cells according to Claim 3, the cells or protoplasts of the tissue selected from the group consisting of: leaves, pollen, embryos, roots, root tips, meristem, ovule, anthers, silk, flowers, kernels, ears, cobs, husks and stalks.

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8.5 (once amended) A corn plant capable of expressing all of the physiological and morphological characteristics of the inbred line designated G3001 regenerated from the cells of the tissue culture of Claim 3.

6. (once amended) Hybrid seed produced by the method comprising the following steps:

- (a) planting, in pollinating proximity, seeds of corn inbred line G3001, representative seed of said line which have been deposited in the ATCC under accession number X, and another inbred line, one of said inbred lines not releasing pollen;
- (b) cultivating corn plants resulting from said planting;
- (c) allowing cross pollination to occur between said inbred lines; and
- (d) harvesting seeds produced on the non-pollen releasing inbred.

Sub B2 7. (once amended) Maize seed produced by the method comprising the steps of: crossing a corn plant comprising at least one ancestor being the inbred plant in Claim 2, with a plant of another maize line, and harvesting maize seed therefrom.

A2 cancelled 8. (once amended) Corn plants grown from maize seed of Claim 7.

9. (once amended) A first generation (F1) hybrid corn plant produced by using the seed of the line designated G3001, representative seed of said line which have been deposited in the ATCC under accession number X, the process comprising the steps of :

(a) planting, in pollinating proximity, seeds of corn inbred line[s] G3001 and another inbred line;

(c) cultivating corn plants resulting from said planting;

(c) allowing [natural cross-]pollination to occur between said inbred lines wherein at least one of said inbred lines does not provide pollen during pollination said non pollen producing inbred line being the seed producing plants;

(d) harvesting seeds produced on the seed producing plants of the inbred line; and

(e) growing a harvested seed of step (d)

10. A tissue culture of the regenerable cells of the corn plant of Claim 8.

11. A tissue culture of the regenerable cells of the corn plant of Claim 9.

A3 12. (once amended) The plant according to Claim 5, comprising, in the plant at least one transgene.

13. (once amended) The seed according to Claim 1, comprising, at least one transgene.

14. (once amended) Hybrid seed comprising: at least one transgene capable of being identified, said seed produced by hybrid combination of plants derived from inbred corn seed of the line designated G3001 in Claim 13 and plants of another corn line at least one of said lines comprising at least one transgene.

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15. (once amended) The plant according to Claim 2, comprising: in the plant at least one mutant gene said mutant gene being a mutant gene relative to the genes in the plants resulting from growing the representative seed deposited in claim 1.

16. (once amended) The seed according to Claim 1, comprising: at least one mutant gene said mutant gene being a mutant gene relative to the genes in the plants resulting from growing the representative seed deposited in claim 1.

17. (once amended) Hybrid seed comprising at least one mutant gene said seed produced by hybrid combination of plants derived from inbred corn seed of the line designated G3001 in Claim 16 and plants of another corn line at least one of said lines comprising at least one mutant gene.

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18. (once amended) A method of identifying the seed according to claim 1, the steps comprising: planting hybrid seed comprising as a parent the corn plant according to claim 2, selecting plants from the planting that appear less robust than the other plants, said selected plants; self-pollinating the selected plants; harvesting the seed therefrom, and; identifying the seed as inbred seed.

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19. (newly added claim) The method of claim 18 comprising: the additional step of screening plant material derived from the selected plants or the harvested seed with biological techniques wherein identifying the seed as an inbred seed.

20. (newly added claim) The pollen of the corn plant of claim 2.